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ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN
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    1999:811187 HCAPLUS
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    132:53734
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ED
    Silane aqueous emulsions for waterproofing of building materials
TΤ
    Feder, Michel; Franzoni, Christine
IN
    Rhodia Chimie, Fr.
PA
     PCT Int. Appl., 27 pp.
SO
    CODEN: PIXXD2
DT
    Patent
LA
    French
    ICM C04B041-49
IC
     ICS C09D183-04
CC
     58-6 (Cement, Concrete, and Related Building Materials)
FAN.CNT 1
                                          APPLICATION NO.
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    WO 9965844
PΙ
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        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
            KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
            MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
            TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD,
            RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
            ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
            CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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                                         FR 1998-7638
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     FR 2780058
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CLASS
               CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
 WO 9965844
                ICM
                       C04B041-49
                ICS
                       C09D183-04
                       C04B041/49B4; C09D004/00+C08G77/04; C09D183/04+B4
WO 9965844
                ECLA
                       C04B041/49B4; C09D004/00+C08G77/04; C09D183/04+B4
 FR 2780058
                ECLA
    MARPAT 132:53734
OS
    Aqueous emulsions comprise (1) ≥1 hydrolizable silane or silane containing
AB
     oligomer with mol. weight of silane \leq 700 g, (2) reaction products of
     (a) ammonia and/or an aromatic amine and/or a water soluble polyfunctional
     aliphatic compds containing 2-25 carbon atoms and (b) ≥1 carboxylic acids
     or anhydrides containing 3-22 carbon atoms, and optionally, (c) \geq 1 a
     metal salt as the reticulation agent. In one embodiment compns. containing
     2-Amino-2-ethylpropane-1,3-diol 3.8, stearic acid 7.2, Rhodasurf R.O.X.
     (isotridecyclic ethoxyl alc.) 11.8, octyltriethoxysilane 311.6, ammonium
     zirconium carbonate 3.2, and distilled water 666.4 g. were used. Optionally,
     the emulsions comprise ≥1 nonionic, anionic, or amphoteric
     surfactants, and ≥1 resin. The emulsion can be used for
     waterproofing of concrete, mortar, stones, bricks, tiles, terra cotta, and
     even wood.
ST
     silane aq emulsion waterproofing building material; concrete waterproofing
     aq silane emulsion
IT
     Anhydrides
     Carboxylic acids, processes
     RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
     process); PROC (Process); USES (Uses)
        (C3-C22; silane aqueous emulsions for waterproofing of building materials)
IT
     Sulfonates
     RL: MOA (Modifier or additive use); USES (Uses)
        (alkanesulfonates, anionic surfactant; silane aqueous emulsions for
       waterproofing of building materials)
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IT
    Silanes
     RL: MOA (Modifier or additive use); TEM (Technical or engineered material
     use); USES (Uses)
        (alkenyl, waterproofing emulsion; silane aqueous emulsions for
        waterproofing of building materials)
     Sulfonic acids, uses
IT
     RL: MOA (Modifier or additive use); USES (Uses)
        (alkyl esters, anionic surfactant; silane aqueous emulsions for
        waterproofing of building materials)
IT
     Polyoxyalkylenes, uses
     RL: MOA (Modifier or additive use); USES (Uses)
        (alkyl group-terminated, nonionic surfactant; silane aqueous emulsions for
        waterproofing of building materials)
IT
     Betaines
     RL: MOA (Modifier or additive use); USES (Uses)
        (alkyl, amphoteric surfactant; silane aqueous emulsions for waterproofing
        of building materials)
IT
     Sulfonates
     RL: MOA (Modifier or additive use); USES (Uses)
        (alkylarene, anionic surfactant; silane aqueous emulsions for waterproofing
        of building materials)
IT
     Betaines
     RL: MOA (Modifier or additive use); USES (Uses)
        (amidoalkyl, amphoteric surfactant; silane aqueous emulsions for
        waterproofing of building materials)
IT
     Silanes
     Silanes
     RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
     process); TEM (Technical or engineered material use); PROC (Process); USES
     (Uses)
        (amino, waterproofing emulsion; silane aqueous emulsions for waterproofing
        of building materials)
IT
     Protein hydrolyzates
     RL: MOA (Modifier or additive use); USES (Uses)
        (amphoteric surfactant; silane aqueous emulsions for waterproofing of
        building materials)
IT
     Surfactants
        (amphoteric; silane aqueous emulsions for waterproofing of building
        materials)
IT
     Surfactants
        (anionic; silane aqueous emulsions for waterproofing of building materials)
IT
     Amines, processes
     RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
     process); PROC (Process); USES (Uses)
        (aromatic; silane aqueous emulsions for waterproofing of building materials)
IT
     Salts, processes
     RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
     process); PROC (Process); USES (Uses)
        (as reticulation agent; silane aqueous emulsions for waterproofing of
        building materials)
IT
     Polyoxyalkylenes, uses
     RL: MOA (Modifier or additive use); USES (Uses)
        (diol, ester, amide, or amine derivs.; silane aqueous emulsions for
        waterproofing of building materials)
IT.
     Coating materials
        (emulsion, water-resistant; silane aqueous emulsions for waterproofing of
        building materials)
IT
     Amides, uses
     RL: MOA (Modifier or additive use); USES (Uses)
        (fatty, nonionic surfactant; silane aqueous emulsions for waterproofing of
        building materials)
IT
     Silanes
     RL: MOA (Modifier or additive use); TEM (Technical or engineered material
     use); USES (Uses)
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(haloalkyl, waterproofing emulsion; silane aqueous emulsions for waterproofing of building materials) IT Silanes RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (mol. weight ≤700 g; silane aqueous emulsions for waterproofing of building materials) IT Fatty acids, uses Polyoxyalkylenes, uses Terpenes, uses RL: MOA (Modifier or additive use); USES (Uses) (nonionic surfactant; silane aqueous emulsions for waterproofing of building materials) Surfactants IT (nonionic; silane aqueous emulsions for waterproofing of building materials) ITCarboxylic acids, uses RL: MOA (Modifier or additive use); USES (Uses) (polycarboxylic, sulfonated; silane aqueous emulsions for waterproofing of building materials) Fatty acids, uses ITRL: MOA (Modifier or additive use); USES (Uses) (salts, surfactants; silane aqueous emulsions for waterproofing of building materials) IT Waterproofing (silane aqueous emulsions for waterproofing of building materials) IT Waterproofing agents (silane based; silane aqueous emulsions for waterproofing of building materials) IT Amines, processes Amines, processes Epoxides RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (silyl, waterproofing emulsion; silane aqueous emulsions for waterproofing of building materials) ITAmides, uses Amides, uses Sulfates, uses Sulfates, uses RL: MOA (Modifier or additive use); USES (Uses) (sulfamates, anionic surfactant; silane aqueous emulsions for waterproofing of building materials) IT Bricks Concrete Terra cotta Tiles Wood (waterproofing; silane aqueous emulsions for waterproofing of building materials) IT Stone (construction material) RL: TEM (Technical or engineered material use); USES (Uses) (waterproofing; silane aqueous emulsions for waterproofing of building materials) IT 64-19-7D, Acetic acid, alkyl derivs., uses RL: MOA (Modifier or additive use); USES (Uses) (amphoteric surfactant; silane aqueous emulsions for waterproofing of building materials) TT 107-35-7D, Taurine, acylalkyl derivs. 107-36-8 110-15-6D, Succinic acid, alkyl esters 7664-38-2D, Phosphoric acid, alkyl esters, uses 7664-93-9D, Sulfuric acid, alkyl esters, uses RL: MOA (Modifier or additive use); USES (Uses)

(anionic surfactant; silane aqueous emulsions for waterproofing of building materials)

IT 22829-17-0D, Ammonium zirconium carbonate, reaction products with carboxylic acids or anhydrides and aromatic amines

RL: MOA (Modifier or additive use); USES (Uses)

(as reticulation agent; silane aqueous emulsions for waterproofing of building materials)

IT 99734-09-5D, ethoxyl

RL: MOA (Modifier or additive use); USES (Uses) (nonionic surfactant; silane aqueous emulsions for waterproofing of building materials)

IT 110-91-8, Morpholine, uses 124-09-4, Hexamethylenediamine, uses 302-01-2, Hydrazine, uses 2486-70-6, 3-Methyl-4-Aminobenzoic acid 2943-75-1, Octyltriethoxysilane 9003-07-0D, Polypropylene, diol, ester, amide, or amine derivs. 9043-30-5D, reaction products with aromatic amines, carboxylic acids, and zirconium salts 25322-68-3D, Polyethylene glycol, diol, ester, amide, or amine derivs. 27014-42-2 51178-86-0 RL: MOA (Modifier or additive use); USES (Uses)

(silane aqueous emulsions for waterproofing of building materials)
IT 115-70-8D, 2-Amino-2-ethylpropane-1,3-diol, reaction products with
 carboxylic acids or anhydrides and metal salts
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
 process); PROC (Process); USES (Uses)

(silane aqueous emulsions for waterproofing of building materials)

57-11-4D, Stearic acid, reaction products with ammonia and metal salts
110-86-1, Pyridine, reactions 7664-41-7D, Ammonia, reaction products
with carboxylic acids or anhydrides and metal salts, reactions
RL: MOA (Modifier or additive use); RCT (Reactant); RACT (Reactant or
reagent); USES (Uses)

(silane aqueous emulsions for waterproofing of building materials)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Okada; US 4496687 A 1985 HCAPLUS
- (2) Rhone-Poulenc; WO 9747569 A 1997 HCAPLUS
- (3) Traver; US 4525502 A 1985 HCAPLUS
- (4) Victoria University; WO 9516752 A 1995 HCAPLUS